## PATENT COOPERATION TREATY

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

And	applicant's or agent's file reference					
				FOR FURTHER A	ACTION	See Form PCT/IPEA/416
		application 004/0068		International filing date 24.06.2004	(day/month/year)	Priority date (day/month/year) 21.07.2003
				ational classification and A61K33/26, A61K33/		
	licant ILEVEI	R N.V. et	al.			· · · · · · · · · · · · · · · · · · ·
1.	7101110	and discon	Allicio do ana tial	ismitted to the applica	nt according to Article 3	is International Preliminary Examining 6.
2.	This F	REPORT	consists of a total of	of 7 sheets, including	this cover sheet.	
3.				y ANNEXES, comprisi		
	a. 🛘	sent to th	he applicant and te	o the International Bure	eau) a total of sheets, a	as follows:
		□ shee and/ Adm	ets of the descripti or sheets containi dinistrative Instruct	on, claims and/or draw ng rectifications author ions).	ings which have been a ized by this Authority (s	mended and are the basis of this report ee Rule 70.16 and Section 607 of the
		Deye	ets which supersec and the disclosure plemental Box.	de earlier sheets, but wind in the international app	rhich this Authority cons Dication as filed, as indi	iders contain an amendment that goes cated in item 4 of Box No. I and the
	b. □	ocquerio	o noming and/or lab	ies relateu thereto, in t	ndicate type and numbe computer readable form 02 of the Administrative	er of electronic carrier(s)) , containing a only, as indicated in the Supplemental Instructions).
4.	This re	eport conta	ains indications re	lating to the following i	tome:	
		x No. I	Basis of the opin	_		
	_	x No. II	Priority	lion		
		x No. III	•	ant of oninion with your	and to manualty the state	
		x No. IV	Lack of unity of i	ant of opinion with rega	ira to noveity, inventive	step and industrial applicability
		x No. V	Reasoned state	ment under Article 350	2) with regard to novelty supporting such staten	, inventive step or industrial
	□ Во	x No. VI	Certain docume			nent .
	□ Во	x No. VII		n the international app	lication	
				ions on the internation		
Date	of submi	ssion of the	demand		Date of completion of thi	s report
22.1	2.2004				20.01.2006	
Name	lame and mailing address of the International reliminary examining authority:		Authorized Officer			
		European I D-80298 M Tel. +49 89	Patent Office	6 epmu d	Couzy, F Telephone No. +49 89 23	September Palazine, com Company Compan

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/006817

Во	x No. I Basis of the report
Wit file	h regard to the <b>language</b> , this report is based on the international application in the language in which it was d, unless otherwise indicated under this item.
	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:  ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
hav	In regard to the <b>elements*</b> of the international application, this report is based on <i>(replacement sheets which we been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this ort as "originally filed" and are not annexed to this report):</i>
Des	cription, Pages
1-2	as originally filed
Clai	ms, Numbers
1-15	as originally filed
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
	The amendments have resulted in the cancellation of:  the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):
had Sup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the plemental Box (Rule 70.2(c)).  I the description, pages I the claims, Nos. I the drawings, sheets/figs I the sequence listing (specify): I any table(s) related to sequence listing (specify):  If item 4 applies, some or all of these sheets may be marked "superseded."
	With have reported to the last of the last

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/006817

a	pplicability		ppinion with regard to novelty, inventive step and industrial		
. Ti	he questions whether the claime ovious), or to be industrially app	ed inv licabl	rention appears to be novel, to involve an inventive step (to be non- e have not been examined in respect of:		
$\boxtimes$	claims Nos. 14-15				
	because:				
×	the said international application, or the said claims Nos. 14-15 relate to the following subject matter whic does not require an international preliminary examination (specify):				
	see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion				
	no international search report	has b	peen established for the said claims Nos.		
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
,			does not comply with the standard		
	the tables related to the nucleonot comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, cements provided for in Annex C-bis of the Administrative Instructions.		
	See separate sheet for further				

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/006817

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-15

No:

No:

Inventive step (IS)

Yes: Claims

Claims

Claims

1-15

Industrial applicability (IA)

Yes: Claims

1-13

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

III.1 Since claims 14-15 may encompass methods of treatment of the human body (Rule 67.1(iv) PCT), no opinion will be formulated with respect to the **industrial** applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

III.2 For the assessment of said claims 14-15 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- V.1 Reference is made to the following documents:
- D1: WO 03/003981 A (SMITH KYL L; VITAL BASICS INC (US)) 16 January 2003
- D2: DATABASE WPI Week 1997 Derwent Publications Ltd., London, GB; AN 1997-213445 XP002292286 GAO C, HUANG T, ZHANG W: "Nutritious oral liq. contg. natural ingredients. vitamins and trace elements, promotes bone growth and brain development" & CN 1 097 607 A (MEDICAL INST 999 ENTERPRISE GROUP) 25 January 1995
- D3: DATABASE WPI Week 1997 Derwent Publications Ltd., London, GB; AN 1997-458010 XP002292287 CHEN W, JIANG X, LIU J: "Nutritious soy sauce and its production" & CN 1 117 816 A (CHEN W) 6 March 1996
- D4: DATABASE WPI Week 2003 Derwent Publications Ltd., London, GB; AN 2003-514435 XP002292288 ZHAO G: "Production method of coated and shaped tablet health-care food with the functions of increasing body height and reducing weight for youngsters" & CN 1 411 747 A (ZHAO G) 23 April 2003
- D5: US 2002/045660 A1 (O'CONNOR DEBORAH L ET AL) 18 April 2002

- D6: NEUMANN C, HARRIS DM, ROGERS LM: "Contribution of animal source foods in improving diet quality and function in children of the developping world" NUTRITION RESEARCH, vol. 22, 2002, pages 193-220, XP002257664
- D7: WO 00/62812 A (ADVOCARE INTERNAT LLC) 26 October 2000
- D8: US 2003/044472 A1 (LANG PHILIP C) 6 March 2003
- D9: DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; SESHADRI S, HIRODE K, NAIK P, MALHOTRA S: "Behavorial responses of young anemic Indian children to iron folic-acid supplements" XP002257665 retrieved from BIOSIS Database accession no. PREV198375074283

D10: KOLETZKO B ET AL: "GROWTH, DEVELOPMENT AND DIFFERENTIATION: A FUNCTIONAL FOOD SCIENCE APPROACH" BRITISH JOURNAL OF NUTRITION, CAMBRIDGE, GB, vol. 80, no. SUPPL 1, 1998, pages S05-S45, XP009027350

### V.2 Novelty and inventive step

- V.2.1 All of documents D1-D10, alone or in combination, disclose that iron, zinc, B vitamins and polyunsaturated acids aid in the development of the cognitive performance of children. However, none of the cited prior art documents discloses compositions where the iron to zinc ratio is larger than 2. Thus, the claimed subject-matter is new (Art. 33 (2) PCT).
- V.2.1 The current application does not mention any unexpected effect linked to the selection of the specific iron to zinc ratio. Moreover, the other additional features found in claims 1-15, such as the selection of specific bioavailable iron and zinc sources, or the selection of sources of polyunsaturated fatty acids having higher levels of DHA than EPA, are obvious options for the skilled person having knowledge of D1, D2, or of D3-D9 in conjunction with D10 (for more details, the reader is referred to the International Search Report). Thus, the current set of claims does not involve an inventive step in the sense of Art. 33 (3) PCT.
- V.3 The subject-matter of claims 1-13 is industrially applicable in the sense of Art. 33 (4) PCT.

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

observed:

International application No.

PCT/EP2004/006817

NB: Should the Applicant wish to file amendments, the following is to be

Amendments should be filed by way of replacement pages in the manner stipulated by

Rule 66.8(a) PCT. In particular, fair copies of the amendments should be filed preferably in triplicate.

\*\*\*\*\*\*\*\*\*\*

In order to facilitate the examination of the conformity of the amended application with the requirements of Article 34(2)(b) PCT, the applicant is requested to clearly identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based (see also Rule 66.8(a) PCT). These these indications should best be submitted in handwritten form on a copy of the relevant parts of the application as filed.